



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06



Site Name: Circle Court Ground Water

CERCLIS ID#: TXN000606965

Alias Site Name: NA

Address: 117 Circle Court



643377

City/County or Parish/State/Zip: Weatherford/Parker County/Texas/76087

Report Type: Site Inspection

Date: July 30, 2011

Author: Nancy Johnson - TCEQ

**RECOMMENDATION:**

<input type="checkbox"/> 1. No Further Remedial Action Planned Under Superfund (NFRAP)	<input checked="" type="checkbox"/> 2. Further Investigation Needed Under Superfund												
	<table><tr><td><input type="checkbox"/> PA</td><td><input type="checkbox"/> HRS</td><td>Priority: <input type="checkbox"/> High</td></tr><tr><td><input type="checkbox"/> SI</td><td><input type="checkbox"/> RI/FS</td><td><input type="checkbox"/> Low</td></tr><tr><td><input checked="" type="checkbox"/> ESI</td><td><input type="checkbox"/> RA</td><td></td></tr><tr><td><input type="checkbox"/> Other:</td><td colspan="2"></td></tr></table>	<input type="checkbox"/> PA	<input type="checkbox"/> HRS	Priority: <input type="checkbox"/> High	<input type="checkbox"/> SI	<input type="checkbox"/> RI/FS	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> ESI	<input type="checkbox"/> RA		<input type="checkbox"/> Other:		
<input type="checkbox"/> PA	<input type="checkbox"/> HRS	Priority: <input type="checkbox"/> High											
<input type="checkbox"/> SI	<input type="checkbox"/> RI/FS	<input type="checkbox"/> Low											
<input checked="" type="checkbox"/> ESI	<input type="checkbox"/> RA												
<input type="checkbox"/> Other:													
To be performed by: <u>TCEQ</u>													
<input type="checkbox"/> 3. Action Deferred to: <input type="checkbox"/> RCRA <input type="checkbox"/> NRC													
<input type="checkbox"/> 4. Site Being Addressed Under the State Voluntary Cleanup Program (VCP): <input type="checkbox"/> Yes <input type="checkbox"/> No													

**NOTIFY AUTHORITY:**

<input type="checkbox"/> Removal	<input type="checkbox"/> RCRA	<input type="checkbox"/> TSCA	<input type="checkbox"/> CAA	<input type="checkbox"/> SMCRA
<input type="checkbox"/> Remedial	<input type="checkbox"/> State/Tribe	<input type="checkbox"/> NPDES	<input type="checkbox"/> NRC	<input type="checkbox"/> Resource Trustee:
<input type="checkbox"/> CERCLA	<input type="checkbox"/> Federal	<input type="checkbox"/> UIC	<input type="checkbox"/> SPCC	<input type="checkbox"/> Other:
Enforcement	Facility			

SEND SSSR COPIES TO: ☐ 6SF-AC ☐ 6WQ-SP ☐ ATSDR ☒ State Agency ☐ Tribal Agency

**DISCUSSION:**

The Circle Court Ground Water site is located at 117 Circle Court in Willow Park, Texas. It is located in a rural residential area with single-family residences to the east, west, and south. A 15-acre vacant wooded lot is located north of the site. North of this vacant wooded lot is a truck stop/diner. Located at the site is a municipal drinking water well (Well 20) which is part of the Willow Park Municipal System. Well 20 was drilled on July 15, 1965 to a depth of 180 feet below ground surface.

The Willow Park Municipal System currently provides drinking water to 5,897 individuals through 1,685 connections. Ground water is pumped from 17 municipal wells through five pump stations to 11 points of entry in the system. Well 20 is the only municipal well providing water to the Willow Springs Oaks Pump Station (Point of Entry No. 11). Routine sampling conducted on March 23, 2006 Point of Entry No. 11 detected trichloroethene (TCE) at 6.03 ug/L. As a result, Willow Park Municipal System voluntarily took Well 20 out of service. Follow-up sampling collected directly from Well 20 on May 4, 2006 detected TCE at 33.9 ug/L. On June 19, 2006, granular activated carbon (GAC) filters were installed on Well 20. Periodic sampling of water before and after the GAC filters revealed the filters have effectively reduced the TCE concentrations to levels below the EPA Maximum Contaminant Level (MCL). Nine private wells located in the vicinity of Point of Entry No 11 were sampled on June 1-2, 2006. Of the nine wells sampled, TCE was detected in five of the wells. One of these wells had a concentration of TCE greater than the EPA MCL. Point of Entry No. 11 and Well 20 are located in a rural residential area. No potential source of the TCE contamination was identified during the Preliminary Assessment; however, the distribution of TCE in groundwater suggested a source area to the north-northwest of Well 20.

Because of the release of contaminants to the local drinking water aquifer, a Site Inspection (SI) was recommended for the site in order to gather additional information about the site. Fieldwork for the Circle Court Groundwater SI was conducted March 9 through March 11, 2010. The site consists of a TCE-contaminated groundwater plume from an unidentified source. The groundwater and soil exposure pathways are the pathways of concern for the SI. A total of 22 groundwater samples, including three background samples, three field duplicate samples and three aqueous field blanks, were collected from public water supply wells, residential wells and a private commercial well within the four-mile target distance limit of the site. A total of six soil samples, including two background samples and one field duplicate sample, were collected in the vicinity of the site. A significant concentration of TCE was documented by chemical analysis in three of the wells sampled during the March 2010 SI. The distribution of TCE suggests that additional sampling should be conducted to further identify the extent of the groundwater contamination. No TCE was detected in the soil samples collected during the March 2010 SI; however, chromium was detected in one soil sample at a concentration that met the significant concentration criteria. No sources of TCE, other VOCs, or metals have been identified through chemical analysis at the site or in the vicinity of the groundwater or soil sampling areas.

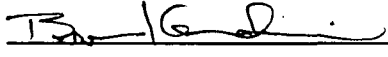

Numerous drinking water receptors are located within the four-mile target distance limit from the Circle Court Groundwater site. Based on the 2000 U.S. Census, the North Central Texas Council of Governments (NCTCOG) estimates that approximately 11,320 persons live within a four-mile radius of the site. However, the NCTCOG has also estimated that the population of Parker County grew from 88,495 in 2000 to 126,000 in 2010, an increase of over 42 percent. Well water uses within four miles of the site include public water supply, domestic, irrigation, commercial, stock or livestock and miscellaneous uses. A search of the Texas Water Development Board (TWDB) water well database revealed 55 public water supply wells and 554 private domestic-use wells located within four miles of the site; however, complete data is not available to determine which of those wells produce drinking water from the Paluxy Formation of the Trinity Aquifer.

One unoccupied residence (represented by soil sample SO-OS) is located within 200 feet of the area of observed contamination (soil sample location SO-03). No school or day care center is located within 200 feet of the area of observed contamination. An undetermined number of persons work on or within the area of observed contamination.

Other pathways (surface water and air) were not evaluated in this SI. The pathways of concern at this site are the groundwater pathway and the soil exposure pathway.

A release to the groundwater pathway has been confirmed; however, no source for the contamination has been identified. In an effort to identify the source of groundwater contamination, it is recommended that an Expanded Site Inspection (ESI) be conducted at the Site. The State will be provided a copy of this decision document.

#### APPROVALS:

<b>Report Reviewed by:</b> <u>Bret Kendrick</u> (Site Assessment Manager)	<b>Signature:</b> <u></u>	<b>Date:</b> <u>08/18/11</u>
<b>Disposition Approved by:</b> <u>John Meyer</u> (Section Chief 6SF-TR)	<b>Signature:</b> <u></u>	<b>Date:</b> <u>10/5/11</u>